

AMENDMENTS TO THE CLAIMS

1-10. (Cancelled)

11. (Original) An improved mobile scanning unit for use in connection with a radio data communications system comprising a scanner for scanning optical codes, a programmed controller for controlling said scanner and receiving data therefrom, a radio module for data communications, a display and an annunciator, wherein said controller is programmed to receive alphanumeric paging messages using said data communications system, to provide said alphanumeric paging messages to said display and to operate said annunciator to signal receipt of a paging message.

12. (Original) An improved mobile scanning unit as specified in claim 11 wherein said controller is programmed to cause said radio module to send acknowledgment signals in response to said paging messages.

13. (Original) An improved mobile scanning unit as specified in claim 11 wherein said alphanumeric paging messages include alternate message responses and wherein said controller is arranged to enable a user to select a response from said alternate message responses and to cause said radio module to communicate said response over said data communication system.

14. (Currently Amended) A mobile scanning unit as specified in claim 11 wherein said unit comprises two housings which are arranged to be mechanically and electrically connected to

each other and wherein one of said housings includes said scanner and the other of said ~~units~~
housings comprises said radio module and said display.

15. (Original) A mobile scanning unit as specified in claim 11 wherein said programmed
controller receives image data from said scanner and to provide said image data to said radio
module for transmission over said data communications system.

16. (Original) A mobile scanning unit as specified in claim 11 further comprising a decoder
coupled to said scanner and providing decoded data to said radio module for transmission over
said data communication system.

17-32. (Cancelled)

33. (Previously Added) A mobile scanning unit, comprising:

a scanner for scanning optical codes;

a programmed controller for controlling the scanner and receiving scanned data
therefrom;

a radio module for data scanning;

a display;

an annunciator;

an antenna;

a plurality of user-depressible buttons;

wherein the radio module is programmed to receive alphanumeric paging messages, to provide the alphanumeric paging messages to the display, and to engage the annunciator to signal receipt of a paging message.

34. (Currently Amended) The mobile scanning unit as in claim 33, wherein the radio module is further programmed to disengage the annunciator upon activation of a at least one of the plurality of user-depressible buttons.

35. (Previously Added) The mobile scanning unit as in claim 34, further comprising a plurality of memory elements, wherein the radio module is programmed to store the alphanumeric paging messages in the plurality of memory elements.

36. (Currently Amended) The mobile scanning unit as in claim 35, wherein a plurality of pre-selected responses are also stored in the plurality of memory elements, and wherein the pre-selected responses may be transmitted by the radio module based on the activation of at least one of the plurality of user-depressible buttons.

37. (Previously Added) The mobile scanning unit as in claim 36, wherein the plurality of user-depressible buttons includes a button for upward scrolling, a button for downward scrolling, a button for selecting highlighted material and a button for canceling functions.

38. (Previously Added) The mobile scanning unit as in claim 36, wherein the display includes at least four lines of displayable text.

39. (Previously Added) The mobile scanning unit as in claim 36, wherein the display comprises a first screen having a first resolution and a second screen having a second resolution, and wherein the second resolution is higher than the first resolution.

40. (Previously Added) The mobile scanning unit as in claim 39, further comprising a lens and wherein the second screen is more easily viewable using the lens.

41. (Currently Amended) A system for scanning, comprising:

(1) at least one mobile scanning unit, each comprising:

- (a) a scanner for scanning optical codes;
- (b) a radio module;
- (c) a display;
- (d) an annunciator;
- (e) a power source and a power manager;
- (f) a plurality of memory elements; and
- (g) a plurality of user-depressible buttons;

(2) a wired network; and

(3) at least one access point;

wherein the at least one access point is capable of transmitting transmission data from the wired network to the at least one mobile scanning unit via a wireless medium and receiving reception data from the at least one mobile scanning unit to the wired network via a wireless medium;

wherein the at least one access point forms a transmission area, the transmission area including the space where association to the at least one access point is possible by the at least one mobile scanning unit; and

wherein the at least one access points broadcasts a periodic beacon via wireless medium;
and

wherein each of the at least one mobile scanning unit attempts to associate with the at least one access points by broadcasting a poll via a wireless medium on a first periodic basis unless otherwise instructed by the power manager within the ~~specific~~ at least one mobile scanning unit.

42. (Previously Added) The system as in claim 41, wherein the transmitting data is capable of including data obtained from the use of the scanner of at least one of the at least one mobile scanning unit.

43. (Previously Added) The system as in claim 42, wherein the transmission data and the reception data include data representing the IP address associated with each of the at least one mobile scanning unit, and wherein the wired network is connected to the Internet.

44. (Previously Added) The system as in claim 42, wherein the transmission data and the reception data include data representing the MAC address associated with each of the at least one access point.

45. (Previously Added) The system as in claim 42, wherein the transmission data and the reception data include at least one unique message each of which is identified by a unique sequence number;

and wherein the transmission data and the reception data include information associated with each of the at least one unique message that is identified by a unique sequence number associated with each of the at least one unique message.

46. (Previously Added) The system as in claim 45, wherein a first of the at least one mobile scanning unit sends a first of the at least one unique message to a second of the at least one mobile scanning unit via the at least one access point, wherein the first of the at least one unique message is identified by its unique sequence number.

47. (Previously Added) The system as in claim 42, wherein the transmission data comprises a plurality of alphanumeric paging messages that may be either individual paging messages that are designed by the wired network for a particular one of the at least one mobile scanning unit associated with the wired network and network paging messages that are designated by the wired network for each of the least one mobile scanning unit associated with the wired network.

48. (Previously Added) The system as in claim 47, wherein the at least one mobile scanning unit is programmable to disable receipt of the network paging messages.

49. (Previously Added) The system as in claim 42, wherein the power manager is programmed to instruct the radio module within a specific mobile scanning unit to desist attempting to associate with the at least one access point on the first periodic basis after a predetermined length of time has passed since the last successful association between the specific mobile scanning unit and the at least one access point.

50. (Previously Added) The system as in claim 49, wherein the predetermined length of time is about 1 hour.

51. (Currently Amended) The system as in claim 49, wherein the power manager within the specific mobile scanning unit is further programmed to instruct the radio module within the same specific mobile scanning unit to resume attempting to associate with the at least one access point on the first periodic basis upon activation of at least one of the plurality of the user-depressible buttons within the same specific mobile scanning unit.

52. (Currently Amended) The system as in claim 42, wherein the power manager within a specific mobile scanning unit is programmed to instruct the radio module within the same specific mobile scanning unit to cease attempting to associate with the at least one access point on the first periodic basis;

wherein the radio module within the same specific mobile scanning unit is programmed to attempt to access the periodic beacon transmitted by the at least one access points, the periodic beacon including information related to the presence or absence of pending messages for the ~~particular~~ specific mobile scanning unit within the wired network;

and wherein, if there are pending messages for the same specific mobile scanning unit, the same specific mobile scanning unit is programmed to associate with the at least one access point to obtain the pending messages.

53. (Previously Added) The system as in claim 52, wherein the instructions to the radio module within the same specific mobile scanning unit to case attempting to associate with the at least one access points on the first periodic basis results in less drain on the power source of the same specific mobile scanning unit.

54. (Previously Added) The system as in claim 42, wherein the power manager of a specific mobile scanning unit is programmed to instruct the radio module of the same specific mobile scanning unit to attempt to associate with the at least one access point on a second periodic basis, wherein the second periodic basis is less frequent than the first periodic basis;

wherein the attempt to associate with the at least one access point on a second periodic basis comprises:

the transmission of the poll by the same specific mobile scanning unit;

if there are pending messages for the same specific mobile scanning unit, the receipt of the pending messages from the at least one access point; and

if there are no pending messages for the same specific mobile scanning unit, the receipt of an acknowledgement from at least one access point.

55. (Currently Amended) The system as in claim 54, wherein the power manager of the same specific mobile scanning unit is programmed to instruct the radio module of the same

specific mobile scanning unit to attempt to associate with the at least one access point on the second periodic basis at all times other than when the same specific mobile scanning unit is near the edge of the transmission ~~era~~ area.

56. (Previously Added) The system as in claim 42, wherein the annunciator of a specific mobile scanning unit is programmed to activate when the same specific mobile scanning unit is near the edge of the transmission area.

57. (Previously Added) The system as in claim 42, wherein each of the at least one mobile scanning unit associates with the specific access point that is in closest proximity.

58. (Previously Added) The system as in claim 42, wherein a first of the at least one mobile scanning unit that is unable to associate with the at least one access point is capable of associating with a second of the at least one mobile scanning unit, and wherein the second of the at least one mobile scanning unit is capable of functioning in the same manner as one of the at least one access point.

59. (Previously Added) The system as in claim 42, wherein the transmission data and the reception data use a TCP/IP protocol, and wherein the wired network is connected to the Internet.

60. (Previously Added) The system as in claim 42, further comprising a packet data scanning system comprising at least one converter for converting voice signals into a sequence of

data signals, at least one assembler for assembling the data signals into data packets, and at least one resolver for sequentially converting the data signals in the data packets to voice signals; and wherein the transmission data and the reception data comprise the data packets.

61. (Previously Added) The system as in claim 60, wherein each of the at least one resolver is located on one of the at least one mobile scanning unit and wherein each of the at least one resolver is further capable of converting the data signals in the data packets to alphanumeric characters using voice recognition and displaying the alphanumeric characters on the display of the at least one mobile scanning unit.